



**Madison Gas and Electric Company**

P.O. Box 1231  
Madison, WI 53701-1231  
608-252-7000

*your community energy company*

April 30, 2003

Mr. James D. Loock  
Chief Engineer, Electric Division  
Public Service Commission of Wisconsin  
610 North Whitney Way  
Post Office Box 7854  
Madison, Wisconsin 53707-7854

Subject: PSC 113.0607 - Appropriate Inspection and Maintenance System Reliability -  
Operating Performance Statistics

---

Dear Mr. Loock:

To satisfy the requirements of the service rule referenced above, enclosed is Madison Gas and Electric Company's (MGE) Operating Performance Statistics for units nameplate-rated at 50-MWs or more. The West Marinette Combustion Turbine is the only unit owned and operated by MGE that is nameplate-rated higher than 50-MWs.

I believe this information satisfies the requirements of PSC 113.0607, paragraph six (6), but if you have any questions or require additional information, please contact me at your earliest convenience.

Sincerely,

A handwritten signature in black ink that reads "Robert A. Patton". The signature is fluid and cursive, with a long horizontal stroke at the end.

Robert A. Patton  
Manager - Blount Maintenance and Stores

dsh

Enclosure

# M34 Facility Monthly Operating Report 2001

## Operational Data

	January	February	March	April	May	June	July	August	September	October	November	December	YTD	
Gross Generation	KWH	5,235,000	8,104,000	9,242,000	976,000	3,339,000	5,696,000	11,306,000	12,021,000	405,000	2,318,000	1,981,000	714,000	61,337,000
Net Generation	KWH	5,145,000	8,016,000	9,154,000	906,000	3,259,000	5,619,000	11,212,000	11,931,000	352,000	2,250,000	1,913,000	641,000	60,398,000
Natural Gas Fuel	CCF	361,100	1,003,200	1,128,300	124,600	366,100	719,100	1,429,400	1,515,200	53,900	287,500	266,300	99,200	7,353,900
Distillate Fuel	GAL	202,499	0	0	10	41,593	0	6	4	11	12	7	24	244,166
Demineralized Water Consumed	GAL	142,326	0	0	1	35,393	0	1,233	0	0	266	1	0	179,220
Heat Rate Cap. Factor (Nameplate)	BTU/KWH %	12,506 8.47	12,615 14.52	12,424 14.95	13,864 1.63	13,085 5.4	12,900 9.52	12,825 18.29	12,801 19.45	15,439 0.68	12,817 3.75	13,963 3.31	15,605 1.16	12,822 8
Total Fired Hours	HRS	73.10	117.80	130.00	16.10	54.70	90.30	179.90	187.60	7.60	33.90	36.40	14.30	942
Peak Fired Hours	HRS	0.00	1.00	0.00	0.00	4.90	1.10	1.20	0.00	0.00	0.00	0.00	0.00	8
Gas Fired Hours	HRS	42.00	117.80	130.00	16.10	47.20	90.30	180.00	187.60	7.50	33.90	36.40	14.30	903
Fired Starts		10	8	9	3	10	10	20	16	2	3	5	4	100
Emergency Trips		6	0	0	0	0	0	2	5	0	0	0	1	14
Period Hours		744	672	744	720	744	720	744	744	720	744	720	744	8,760
Opening Reading Taken on		01/01/2001	02/01/2001	03/01/01	04/01/01	05/01/01	06/01/01	07/01/01	08/01/01	09/01/01	10/01/01	11/01/01	12/01/01	
Closing Reading Taken on		02/01/2001	03/01/2001	04/01/01	05/01/01	06/01/01	07/01/01	08/01/01	09/01/01	10/01/01	11/01/01	12/01/01	01/01/02	

Bruce Crocker  
Eastern Hydro Supervisor  
01/15/2002

# M34 Facility Monthly Operating Report 2002

## Operational Data

	January	February	March	April	May	June	July	August	September	October	November	December	YTD	
Gross Generation	KWH	1,665,000	4,314,000	3,460,000	12,987,000	1,265,000	2,334,000	7,762,000	10,518,000	5,206,000	4,875,000	7,539,000	3,631,000	65,556,000
Net Generation	KWH	1,586,000	4,238,000	3,378,000	12,897,000	1,185,000	2,264,000	7,676,000	10,428,000	5,152,000	4,792,000	7,339,000	3,547,000	64,492,000
Natural Gas Fuel	CCF	216,000	556,300	439,200	1,659,700	153,300	308,700	1,009,500	1,384,100	670,600	614,700	953,300	465,200	8,430,600
Distillate Fuel	GAL	6	33	7	18	5,057	0	19	7	0	20,359	1,720	4,431	31,657
Demineralized Water Consumed	GAL	0	0	0	0	1,634	0	0	0	0	12,338	5	2,713	16,690
Heat Rate	BTU/KWH	13,661	13,180	13,054	12,895	13,464	13,690	13,217	13,326	13,055	13,465	13,074	13,340	13,187
Cap. Factor (Nameplate)	%	2.69	7.73	5.6	21.71	2.05	3.9	12.56	17.02	8.7	7.89	12.6	5.88	9
Total Fired Hours	HRS	26.80	69.60	51.90	205.20	20.30	41.90	131.80	185.00	85.20	86.40	119.70	62.00	1,086
Peak Fired Hours	HRS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Gas Fired Hours	HRS	26.80	69.60	51.90	205.20	19.50	41.80	131.80	185.00	85.20	82.00	119.50	60.60	1,079
Fired Starts		2	9	6	17	4	7	13	20	8	12	14	17	129
Emergency Trips		0	2	2	0	0	0	0	0	0	0	0	5	9
Period Hours		744	672	744	720	744	720	744	744	720	744	720	744	8,760
Opening Reading Taken on		01/01/2002	03/01/2002	03/01/02	04/01/02	04/01/02	06/01/02	07/01/02	08/01/02	09/01/02	10/01/02	11/01/02	12/01/02	
Closing Reading Taken on		02/01/2002	02/01/2002	04/01/02	05/01/02	05/01/02	07/01/02	08/01/02	09/01/02	10/01/02	11/01/02	12/01/02	01/01/03	

Bruce Crocker  
Eastern Hydro Supervisor  
12/26/2002

# MONTHLY OPERATING STATISTICS - M34

Month January 2003

	Fuel Gas ccf	Fuel Distillate Gal	NOX Water Gal			Gross Generation	Station Use	Aux Station Use	Net Generation
Close	205971	284461	217588		Close	165219	2653	2478	
Open	200264	277528	214462		Open	160864	2558	2478	
Constant	100	1	1		Constant	1000	1000	1000	
Total Used	570700	6933	3126		Total - Kwh	4355000	95000	0	4260000

	Total Starts	Fired Starts	Fast Load Starts	Emer Trips	Total Fired Hours	Peak Hours	Gas Fired Hours	Liquid Fired Hours	GCB Oper
Close	342	327	0	35	2605.9	13.60	2545.90	59.7	524
Open	324	309	0	29	2527.4	13.60	2469.90	57.20	509
Constant	1	1	1	1	1	1	1	1	1
Total	18	18	0	6	78.50	0.00	76.00	2.50	15

Heat Content  
Gas/CuFt: 1006

Oil/Gal: 138000

BTU total 58369174000  
Heat Rate: 13702  
Capacity  
Factor: 7.05  
# Days in  
Month 31

Opening reading were taken on : 01/01/2003  
Closing reading were taken on: 02/01/2003

Note:

# MONTHLY OPERATING STATISTICS - M34

Month February 2003

	Fuel Gas ccf	Fuel Distillate Gal	NOX Water Gal		Gross Generation	Station Use	Aux Station Use	Net Generation
Close	216657	361171	280909		Close 174385	2753	2478	
Open	205971	284461	217586		Open 165219	2653	2478	
Constant	100	1	1		Constant 1000	1000	1000	
Total Used	1068600	76710	63321		Total - Kwh 9166000	100000	0	9066000

	Total Starts	Fired Starts	Fast Load Starts	Emer Trips	Total Fired Hours	Peak Hours	Gas Fired Hours	Liquid Fired Hours	GCB Oper
Close	360	345	0	39	2755.2	14.00	2682.40	72.4	541
Open	342	327	0	35	2605.9	13.6	2545.9	59.7	524
Constant	1	1	1	1	1	1	1	1	1
Total	18	18	0	4	149.30	0.40	136.50	12.70	17

Heat Content  
Gas/CuFt: 1008

Oil/Gal: 138000

BTU total 118300860000  
Heat Rate: 13049  
Capacity  
Factor: 16.42  
# days in  
month 28

Opening reading were taken on 02/01/2003  
Closing reading were taken on 03/01/2003

Note: Liquid fuel use is from metering problem, not fuel burned.

# MONTHLY OPERATING STATISTICS - M34

Month March 2003

	Fuel Gas ccf	Fuel Distillate Gal	NOX Water Gal			Gross Generation	Station Use	Aux Station Use	Net Generation
Close	218372	361176	280909		Close	175744	2827	2372	
Open	216657	361171	280909		Open	174385	2753	2365	
Constant	100	1	1		Constant	1000	1000	1000	
Total Used	171500	5	0		Total - Kwh	1359000	74000	7000	1278000

	Total Starts	Fired Starts	Fast Load Starts	Emer Trips	Total Fired Hours	Peak Hours	Gas Fired Hours	Liquid Fired Hours	GCB Oper
Close	367	352	0	39	2778.1	14.00	2705.40	72.4	547
Open	360	345	0	39	2755.2	14	2682.4	72.4	541
Constant	1	1	1	1	1	1	1	1	1
Total	7	7	0	0	22.90	0.00	23.00	0.00	6

Heat Content  
Gas/CuFt: 1014

Oil/Gal: 138000

BTU total 17,390,790,000  
Heat Rate: 13608  
Capacity  
Factor: 2.2  
# Days in  
Month 31

Opening readings were taken on #####  
Closing readings were taken on #####

Note: Fuel oil usage was not burned was from low  
gas pressure crossover to liquid fuel.

## Generating Facilities

## WSPSC Preventive Maintenance Plan

## **Attachment A**

[illegible]

## Generating Facilities

**Attachment A**

[illegible]